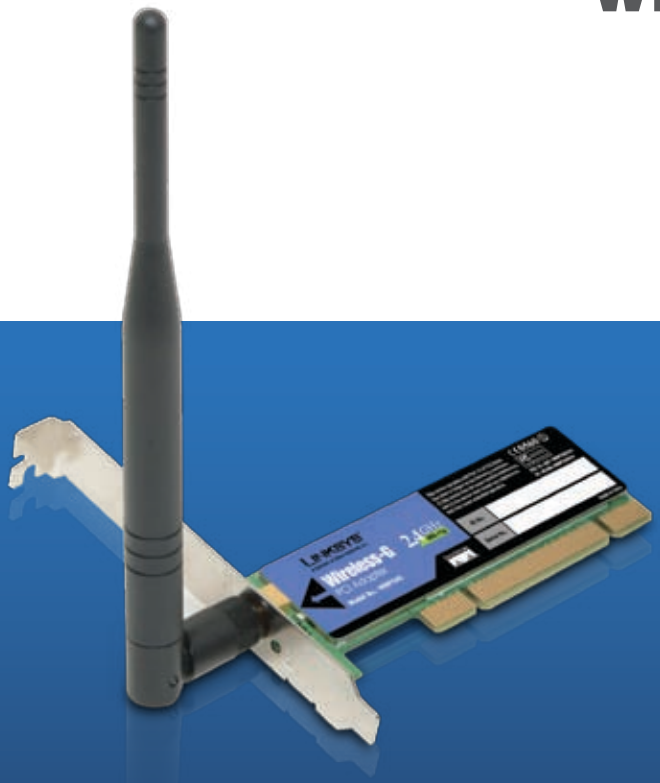
LINKSYS® by Cisco

USER GUIDE

Wireless-G PCI Adapter

Model: **WPC54G (EU)**



About This Guide

Icon Descriptions

While reading through the User Guide you may see various icons that call attention to specific items. Below is a description of these icons:

NOTE: This check mark indicates that there is a note of interest and is something that you should pay special attention to while using the product.

WARNING: This exclamation point indicates that there is a caution or warning and it is something that could damage your property or product.

WEB: This globe icon indicates a noteworthy website address or e-mail address.

Online Resources

Website addresses in this document are listed without **http://** in front of the address because most current web browsers do not require it. If you use an older web browser, you may have to add **http://** in front of the web address.

Resource	Website
Linksys	www.linksys.com
Linksys International	www.linksys.com/international
Glossary	www.linksys.com/glossary
Network Security	www.linksys.com/security

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Table of Contents

Chapter 1: Product Overview 1

LEDs . . . 1

Chapter 2: Wireless Security Checklist 2

General Network Security Guidelines . . . 2
Additional Security Tips . . . 2

Chapter 3: Configuration 3

Accessing the Wireless Network Monitor . . . 3
Using the Wireless Network Monitor . . . 3
Link Information . . . 3
Site Survey . . . 4
Profiles . . . 5

Appendix A: Troubleshooting 14

Appendix B: Specifications 15

Appendix C: Warranty Information 16

Limited Warranty . . . 16

Appendix D: Regulatory Information 18

FCC Statement . . . 18
Safety Notices . . . 18
Industry Canada Statement . . . 18
Avis d'Industrie Canada . . . 18
Wireless Disclaimer . . . 19
Avis de non-responsabilité concernant les appareils sans fil . . . 19
Declaration of Conformity with Regard to EU Directive 1999/5/EC (R&TTE Directive) . . . 20
Wireless Equipment (Wireless-N/G/A/B Products) . . . 21
CE Marking . . . 21
National Restrictions . . . 21
Product Usage Restrictions . . . 22
Technical Documents on www.linksys.com/international . . . 22
User Information for Consumer Products Covered by EU Directive 2002/96/EC on Waste Electric and Electronic Equipment (WEEE) . . . 23

Appendix E: Software License Agreement 27

Software in Linksys Products . . . 27
Software Licenses . . . 27

Chapter 1: Product Overview

Thank you for choosing the Wireless-G PCI Adapter. Setting up your network and your Wireless-G PCI Adapter is easier than ever.

How does the Adapter do this? Like all wireless products, the Adapter allows for greater range and mobility within your wireless network, whether it's using the Wireless-G (802.11g) or Wireless-B (802.11b) standard.

LEDs

Act (Green) The Act. LED lights turns solid when the adapter is linked, and blinks when transferring information.

Chapter 2: Wireless Security Checklist

Wireless networks are convenient and easy to install, so homes with high-speed Internet access are adopting them at a rapid pace. Because wireless networking operates by sending information over radio waves, it can be more vulnerable to intruders than a traditional wired network. Like signals from your cellular or cordless phones, signals from your wireless network can also be intercepted. Since you cannot physically prevent someone from connecting to your wireless network, you need to take some additional steps to keep your network secure.

1. Change the default wireless network name or SSID

Wireless devices have a default wireless network name or Service Set Identifier (SSID) set by the factory. This is the name of your wireless network, and can be up to 32 characters in length. Linksys wireless products use **linksys** as the default wireless network name. You should change the wireless network name to something unique to distinguish your wireless network from other wireless networks that may exist around you, but do not use personal information (such as your Social Security number) because this information may be available for anyone to see when browsing for wireless networks.

2. Change the default password

For wireless products such as access points, routers, and gateways, you will be asked for a password when you want to change their settings. These devices have a default password set by the factory. The Linksys default password is **admin**. Hackers know these defaults and may try to use them to access your wireless device and change your network settings. To thwart any unauthorized changes, customize the device's password so it will be hard to guess.

3. Enable MAC address filtering

Linksys routers and gateways give you the ability to enable Media Access Control (MAC) address filtering. The MAC address is a unique series of numbers and letters assigned to every networking device. With MAC address filtering enabled, wireless network access is provided solely for wireless devices with specific MAC addresses. For example, you can specify the MAC address of each computer in your home so that only those computers can access your wireless network.

4. Enable encryption

Encryption protects data transmitted over a wireless network. Wi-Fi Protected Access (WPA/WPA2) and Wired Equivalency Privacy (WEP) offer different levels of security for wireless communication.

A network encrypted with WPA/WPA2 is more secure than a network encrypted with WEP, because WPA/WPA2 uses dynamic key encryption. To protect the information as it passes over the airwaves, you should enable the highest level of encryption supported by your network equipment.

WEP is an older encryption standard and may be the only option available on some older devices that do not support WPA.

General Network Security Guidelines

Wireless network security is useless if the underlying network is not secure.

- Password protect all computers on the network and individually password protect sensitive files.
- Change passwords on a regular basis.
- Install anti-virus software and personal firewall software.
- Disable file sharing (peer-to-peer). Some applications may open file sharing without your consent and/or knowledge.

Additional Security Tips

- Keep wireless routers, access points, or gateways away from exterior walls and windows.
- Turn wireless routers, access points, or gateways off when they are not being used (at night, during vacations).
- Use strong passphrases that are at least eight characters in length. Combine letters and numbers to avoid using standard words that can be found in the dictionary.

WEB: For more information on wireless security, visit **www.linksys.com/security**

Chapter 3: Configuration

Configuration is done through the Wireless Network Monitor (the Monitor). You can use the Monitor to check the link information, search for available wireless networks, or create profiles that hold different configuration settings.

Accessing the Wireless Network Monitor

After installing the Adapter, the Wireless Network Monitor icon appears in the system tray of your computer. If the Wireless Network Monitor is enabled, the icon is green. If the Wireless Network Monitor is disabled or the Adapter is not connected, the icon is gray.

Using the Wireless Network Monitor

The opening screen of the Wireless Network Monitor is the *Link Information* screen. From this screen, you can find out how strong the current wireless signal is and how good the connection's quality is. You can also click **More Information** to view additional status information about the current wireless connection. To search for available wireless networks, click the **Connect** tab. To perform configuration changes or create connection profiles, click the **Profiles** tab.

Link Information

The *Link Information* screen displays network mode, signal strength, and link quality information about the current connection. It also provides a **More Information** button to click for additional status information.

Link Information

Ad-Hoc Mode or Infrastructure Mode The screen indicates whether the Adapter is currently working in ad-hoc or infrastructure mode.

Signal Strength The Signal Strength bar indicates signal strength.

Link Quality The Link Quality bar indicates the quality of the wireless network connection.

Click **More Information** to view additional information about the wireless network connection on the *Wireless Network Status* screen.

Wireless Network Status

The *Wireless Network Status* screen provides information on your current network settings.

Wireless Network Status

Radio Band This is the radio band used on the network.

Wireless Network Name This is the unique name (SSID) of the wireless network.

Wireless Mode This is the mode of the wireless network currently in use.

Wide Channel This is the Wireless-N primary channel used with a 40 MHz radio band network.

Standard Channel This is the channel used by your wireless network.

Security This is the status of the wireless security feature.

Authentication This is your wireless network's authentication method.

Network Type This is the wireless network type.

IP Address This is the IP Address of the Adapter.

Subnet Mask This is the Adapter's Subnet Mask.

Default Gateway This is the Default Gateway address.

DNS1 This is the DNS address of the Adapter.

MAC Address This is the MAC address of the wireless network's access point or wireless router.

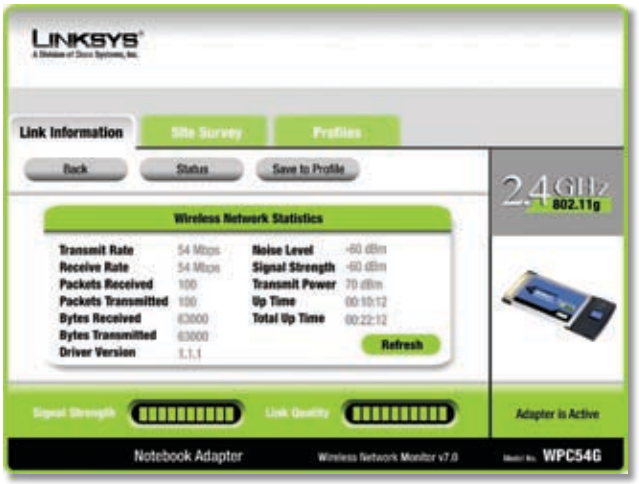
Signal Strength The Signal Strength bar indicates the signal strength.

Link Quality The Link Quality bar indicates the quality of the wireless network connection.

Click **Statistics** to go to the *Wireless Network Statistics* screen. Click **Back** to return to the initial *Link Information* screen. Click **Save to Profile** to save the currently active connection settings to a profile.

Wireless Network Statistics

The *Wireless Network Statistics* screen provides statistics on your current network settings.



Wireless Network Statistics

Transmit Rate This is the data transfer rate of the current connection. (In Auto mode, the Adapter dynamically shifts to the fastest data transfer rate at any given time.)

Receive Rate This is the rate that the Adapter receives data.

Packets Received This shows the packets that the Adapter receives, in real time, after connecting to the wireless network or after clicking **Refresh**.

Packets Transmitted This shows the packets that the Adapter transmits, in real time, after connecting to the wireless network or after clicking **Refresh**.

Bytes Received This shows the bytes that the Adapter receives, in real time, after connecting to the wireless network or after clicking **Refresh**.

Bytes Transmitted This shows the bytes that the Adapter transmits, in real time, after connecting to the wireless network or after clicking **Refresh**.

Driver Version This shows the Adapter's driver version.

Noise Level This shows the level of background noise that affects the wireless signal. A lower reading translates into a higher quality signal.

Signal Strength This is the intensity of the wireless signal that the Adapter receives.

Transmit Power This is the power output at which the Adapter transmits.

Up Time This indicates the length of the most recent connection to a wireless network.

Total Up Time This indicates the cumulative total of the Adapter's connection time.

Signal Strength The Signal Strength bar indicates the signal strength.

Link Quality The Link Quality bar indicates the quality of the wireless network connection.

Click **Back** to return to the initial *Link Information* screen. Click **Status** to go to the *Wireless Network Status* screen. Click **Save to Profile** to save the currently active connection settings to a profile. Click **Refresh** to reset the statistics.

Site Survey

The *Site Survey* screen displays a list of available networks in the table on the left. The table shows each network's wireless network name, channel, and the quality of the wireless signal the Adapter receives. You may click Wireless Network Name, CH (Channel), or Signal, to sort by that field.

Site Survey

SSID The SSID or unique name of the wireless network is displayed here.

CH This is the channel that the network uses.

Signal This is the percentage of signal strength, from 0 to 100%.

Site Information

For each network selected, the following settings are listed:

SSID This is the SSID or unique name of the Wireless Network.

Wireless Mode This is the mode of the wireless network currently in use.

Channel This is the channel to which the wireless network devices are set.

Security This is the status of the wireless security feature.

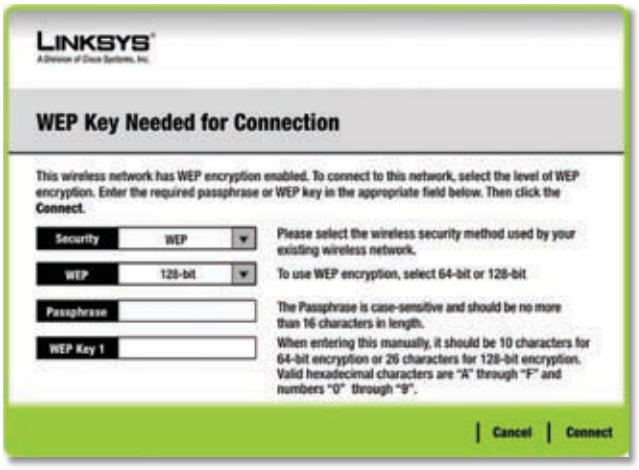
MAC Address This is the MAC address of the wireless network's access point.

Refresh Click **Refresh** to perform a new search for wireless devices.

Connect To connect to one of the networks on the list, select the wireless network, and click **Connect**. If the network's wireless security is enabled, then one of these wireless security screens appears:

WEP

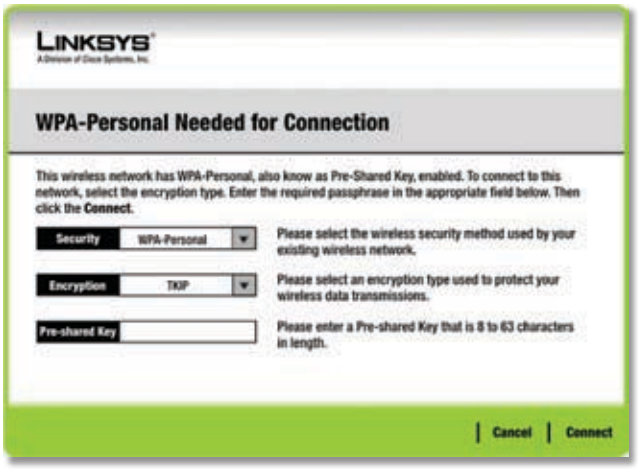
If the network has WEP encryption enabled, then you see the *WEP Key Needed for Connection* screen. Select the appropriate level of WEP encryption, **64-Bit** or **128-Bit**. Then enter the network's Passphrase or WEP Key. Click **Connect**. To cancel the connection, click **Cancel**.


LINKSYS
WEP Key Needed for Connection
This wireless network has WEP encryption enabled. To connect to this network, select the level of WEP encryption. Enter the required passphrase or WEP key in the appropriate field below. Then click the Connect.
Security
WEP
Please select the wireless security method used by your existing wireless network.
WEP
128-bit
To use WEP encryption, select 64-bit or 128-bit
Passphrase
The Passphrase is case-sensitive and should be no more than 16 characters in length.
WEP Key 1
When entering this manually, it should be 10 characters for 64-bit encryption or 26 characters for 128-bit encryption. Valid hexadecimal characters are "A" through "F" and numbers "0" through "9".
Cancel
Connect

WEP Security

WPA-Personal

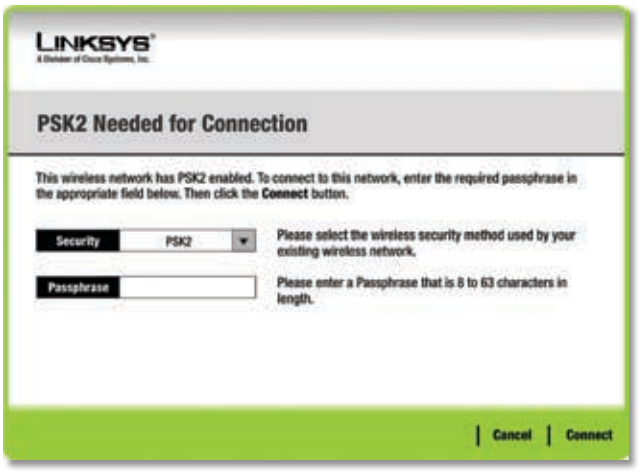
If the network has the WPA Personal security enabled, then you see the *WPA Personal Needed for Connection* screen. Select the appropriate encryption type, **TKIP** or **AES**. Enter the network's Pre-shared Key in the *Pre-shared Key* field. Then click **Connect**. To cancel the connection, click **Cancel**.


LINKSYS
WPA-Personal Needed for Connection
This wireless network has WPA-Personal, also know as Pre-Shared Key, enabled. To connect to this network, select the encryption type. Enter the required passphrase in the appropriate field below. Then click the Connect.
Security
WPA-Personal
Please select the wireless security method used by your existing wireless network.
Encryption
TKIP
Please select an encryption type used to protect your wireless data transmissions.
Pre-shared Key
Please enter a Pre-shared Key that is 8 to 63 characters in length.
Cancel
Connect

WPA-Personal Security

PSK2

If the network has PSK2 enabled, then you will see the *PSK2 Needed for Connection* screen. Enter the network's pre-shared key in the *Pre-shared Key* field. To connect to the network, click **Connect**. To cancel the connection, click **Cancel**.


LINKSYS
PSK2 Needed for Connection
This wireless network has PSK2 enabled. To connect to this network, enter the required passphrase in the appropriate field below. Then click the Connect button.
Security
PSK2
Please select the wireless security method used by your existing wireless network.
Passphrase
Please enter a Passphrase that is 8 to 63 characters in length.
Cancel
Connect

Profiles

The *Profiles* screen lets you save different configuration profiles for different network setups. The table on the left displays a list of available profiles with their profile names and wireless network names.

Profiles

Profile This is the name of the profile.

SSID This is the SSID or unique name of the wireless network.

Profile Information

For each profile selected, the following are listed:

Wireless Mode This is the mode of the wireless network currently in use.

Transfer Rate The data transfer rate of the current connection is shown here.

Channel This is the channel to which the wireless network devices are set.

Security This is the status of the wireless security.

Authentication This is the authentication setting for the network.

Connect To connect to a wireless network using a specific profile, select the profile, and click **Connect**.

New Click **New** to create a new profile. See the next section, "Creating a New Profile," for instructions.

Edit Select the profile you want to change and click **Edit**.

Import Click **Import** to import a profile that is saved in another location. Select the appropriate file, and click **Open**.

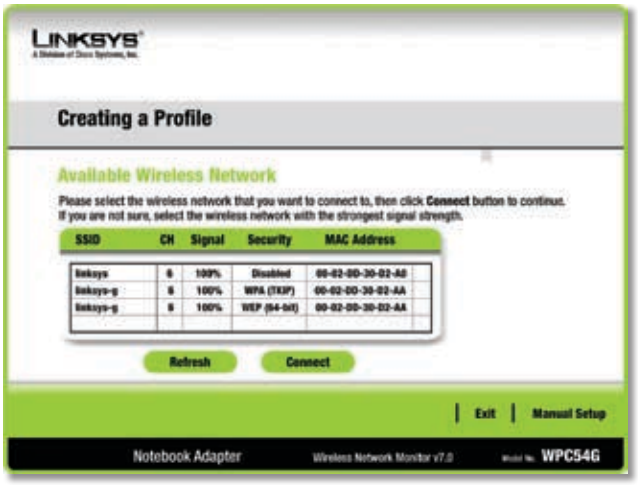
Export Select the profile you want to save in a different location, and click **Export**. Direct Windows to the appropriate folder, and click **Save**.

Delete Select the profile you want to delete and click **Delete**.

NOTE: If you want to export more than one profile, you must export them one at a time.

Create a New Profile

The next screen is the *Available Wireless Networks* screen.



Available Wireless Networks

This screen provides three options for setting up the Adapter.

Secure Easy Setup This Adapter features Secure Easy Setup. This means that you can set it up with just the press of a button when connecting to wireless routers or access points that also feature Secure Easy Setup. Both point on the network must feature Secure Easy Setup for this to work.

Available Wireless Networks (For most users.) Use this option if you already have a network set up. The networks available to this Adapter are listed on this screen. You can choose one of these networks and click **Connect** to connect to it. Click **Refresh** to update the Available Wireless Networks list.

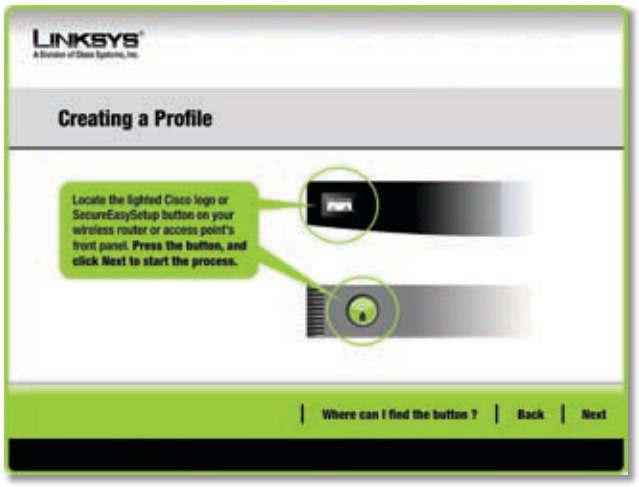
Manual Setup If your network is not listed on this screen, select **Manual Setup** to set up the adapter manually. This method of setting up the Adapter is intended for Advanced Users only.

The setup for each option is described, step by step, under the appropriate heading on the following pages.

Click **Exit** to close the Setup Wizard and set up the Adapter later.

SecureEasySetup

While using the Monitor, you might see the **SecureEasySetup** button on the right-hand side of the screen. This button can be used to set up the Adapter, if this has not already been done. With SecureEasySetup, setting up the Adapter is as simple as pushing a couple of buttons. Before you press any buttons, though, you should locate the **SecureEasySetup** button on the device you're connecting the Adapter to, such as a wireless router or access point.


LINKSYS
Creating a Profile
Locate the lighted Cisco logo or SecureEasySetup button on your wireless router or access point's front panel. Press the button, and click Next to start the process.
Where can I find the button ?
Back
Next

Locate the Button

After clicking the **SecureEasySetup** button, you will be asked to locate the **SecureEasySetup** button or **Cisco** logo button on the device with which the Adapter will be communicating. If you are not sure where to find this button, click **Where can I find the button?**

LINKSYS
Where can I find the button?
The SecureEasySetup button can be a physical hardware button located on your device. This button is usually found on the front of the device and should look like the logo below. Refer to your wireless device's user manual for the exact location of the SecureEasySetup button.
Back
Close

Where can I find the Button?

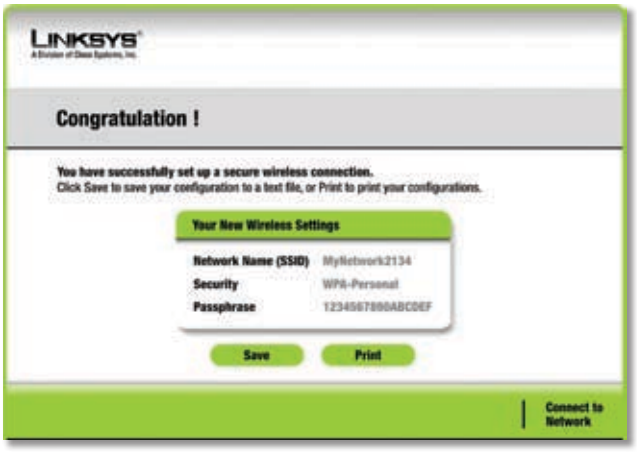
This will walk you through a couple of screens to help you find the button, which is usually located on the front of the wireless router or access point.

If you've clicked the button by accident or do not wish to use SecureEasySetup, you can click **Back** to return to the previous screen.

Press the **Cisco** logo or **SecureEasySetup** button on the wireless router or access point. When it turns white and begins to flash, click the **Next** button on the *Setup Wizard* screen. The logo or button will stop flashing on the wireless router or access point when the Adapter has been successfully added to the network. Repeat this procedure for any additional SecureEasySetup device.

NOTE: You can only add one SecureEasySetup device at a time.

SecureEasySetup is now complete and a configuration profile will has been created automatically. You may save your configuration profile to a text file by clicking the **Save** button, or print the configuration by clicking the **Print** button. Click **Connect to Network** to connect to your network.


LINKSYS
Congratulation !
You have successfully set up a secure wireless connection.
Click Save to save your configuration to a text file, or Print to print your configurations.
Your New Wireless Settings
Network Name (SSID) MyNetwork2134
Security WPA-Personal
Passphrase 1234567890ABCDEF
Save
Print
Connect to Network

SecureEasySetup

Congratulations! SecureEasySetup is complete.

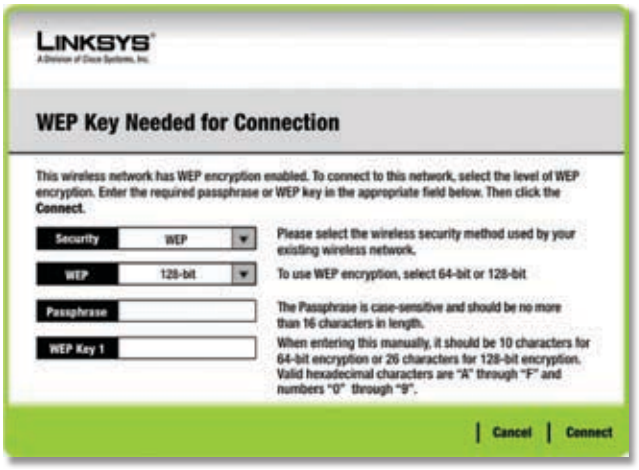
Available Wireless Networks

The available networks are listed in the table on the center of the screen by Wireless Network Name. Select the wireless network you wish to connect to and click **Connect**. (If you do not see your network listed, you can click **Refresh** to bring the list up again.) If the network utilizes wireless security, you will need to configure security on the Adapter. If not, you will be taken directly to the *Congratulations* screen.

1. If you have wireless security enabled on your network, continue to step 2. If you don't have wireless security enabled, continue to step 3.
2. If your network has WEP wireless security enabled, then that security screen appears. Continue to the screen for your wireless security.

WEP (Wired Equivalent Privacy)

If you have WEP enabled, this screen appears. Select **64-Bit** or **128-Bit**. Then enter a passphrase or WEP key.


LINKSYS
WEP Key Needed for Connection
This wireless network has WEP encryption enabled. To connect to this network, select the level of WEP encryption. Enter the required passphrase or WEP key in the appropriate field below. Then click the Connect.
Security
WEP
Please select the wireless security method used by your existing wireless network.
WEP
128-bit
To use WEP encryption, select 64-bit or 128-bit
Passphrase
The Passphrase is case-sensitive and should be no more than 16 characters in length.
WEP Key 1
When entering this manually, it should be 10 characters for 64-bit encryption or 26 characters for 128-bit encryption. Valid hexadecimal characters are "A" through "F" and numbers "0" through "9".
Cancel
Connect

WEP Security

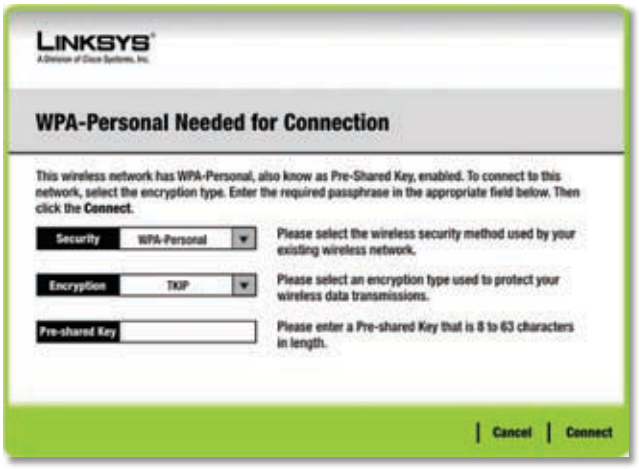
Passphrase Enter a passphrase in the *Passphrase* field, so a WEP key is automatically generated. The passphrase is case sensitive and must be 31 or fewer alphanumeric characters. It must match the passphrase of your other wireless network devices and is compatible with Linksys wireless products only. (For non-Linksys wireless products, enter the WEP key manually.)

WEP Key The WEP key must match the WEP key of your wireless network. For 64-Bit encryption, enter exactly 10 hexadecimal characters ("0" to "9" and "A" to "F".) For 128-Bit encryption, enter exactly 26 hexadecimal characters.

Click **Connect** and proceed to Step 3.

WPA-Personal (Wi-Fi Protected Access)

If your network has WPA-Personal enabled, this screen appears.

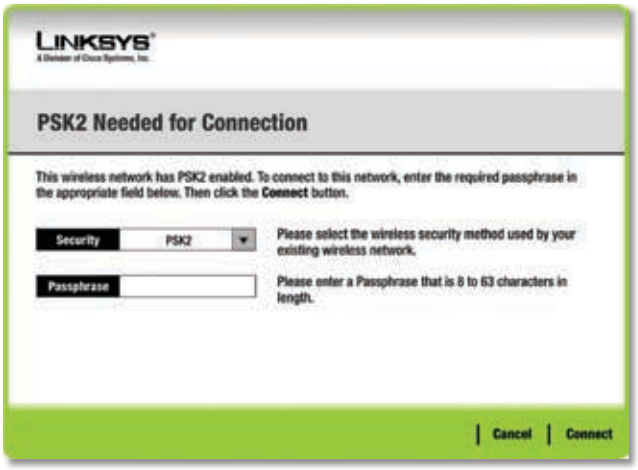

LINKSYS
WPA-Personal Needed for Connection
This wireless network has WPA-Personal, also know as Pre-Shared Key, enabled. To connect to this network, select the encryption type. Enter the required passphrase in the appropriate field below. Then click the Connect.
Security
WPA-Personal
Please select the wireless security method used by your existing wireless network.
Encryption
TKIP
Please select an encryption type used to protect your wireless data transmissions.
Pre-shared Key
Please enter a Pre-shared Key that is 8 to 63 characters in length.
Cancel
Connect

WPA-Personal Security

Encryption Select the type of algorithm you want to use, **TKIP** or **AES**, from the *Encryption* drop-down menu.

Pre-shared Key Enter a Pre-shared Key of 8-63 characters in the *Pre-shared Key* field.

Click **Connect** and proceed to Step 3.


LINKSYS
PSK2 Needed for Connection
This wireless network has PSK2 enabled. To connect to this network, enter the required passphrase in the appropriate field below. Then click the Connect button.
Security
PSK2
Please select the wireless security method used by your existing wireless network.
Passphrase
Please enter a Passphrase that is 8 to 63 characters in length.
Cancel
Connect

PSK Security

Passphrase Enter a Passphrase, also called a pre-shared key, of 8-63 characters in the *Passphrase* field. The longer and more complex your Passphrase is, the more secure your network will be.

Click **Connect** and proceed to Step 3.

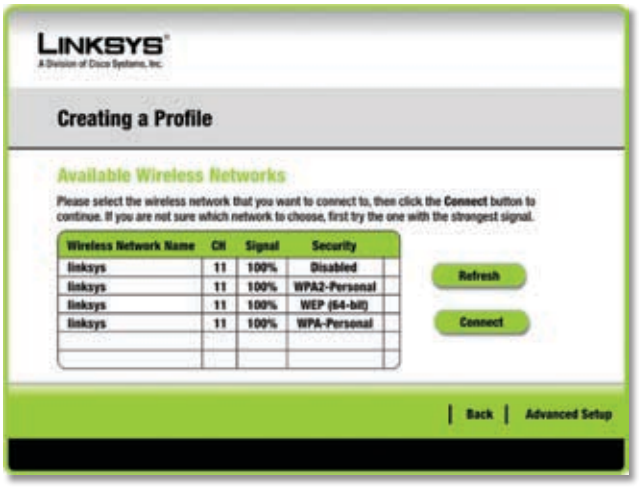
3. After the profile installs, the *Congratulations* screen appears. Click **Connect to Network** to implement the new settings immediately and return to the *Link Information* screen. Click **Return to Profiles Screen** to keep the current settings active and return to the *Profiles* screen.

Congratulations

Congratulations! The profile is successfully configured.

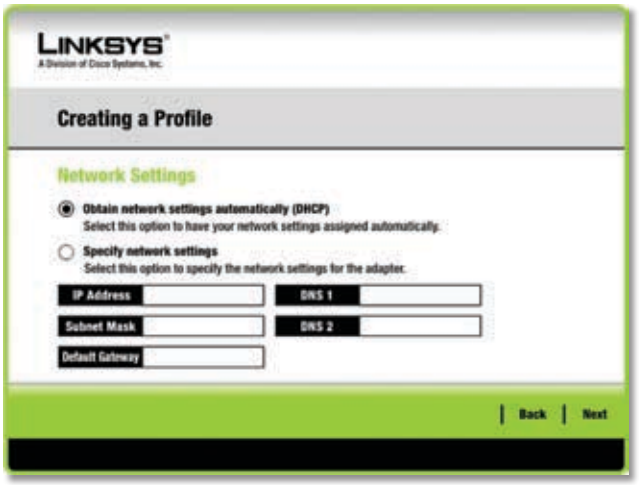
Manual Setup

If your network is not listed with the available networks, you can use Manual Setup.



Available Wireless Networks

1. Click **Manual Setup** on the *Available Wireless Networks* screen to set up the adapter manually.
2. The *Network Settings* screen appears.



Network Settings

If your network has a router or other DHCP server, select **Obtain network settings automatically (DHCP)**.

If your network does not have a DHCP server or router, select **Specify network settings**. Enter an IP Address, Subnet Mask, Default Gateway, and DNS addresses appropriate for your network. You must specify the IP Address and Subnet Mask on this screen. If you are unsure about the Default Gateway and DNS addresses, leave these fields empty.

IP Address This IP Address must be unique to your network.

Subnet Mask The Adapter's Subnet Mask must be the same as your wired network's Subnet Mask.

Default Gateway Enter the IP address of your network's Gateway here.

DNS 1 and DNS 2 Enter the DNS address of your wired Ethernet network here.

Click **Next** to continue, or click the **Back** button to return to the previous screen.

4. The *Wireless Mode* screen shows a choice of two wireless modes. Select **Infrastructure Mode** if you want to connect to a wireless router or access point. Select **Ad-Hoc Mode** if you want to connect to another wireless device directly without using a wireless router or access point. Enter the Wireless Network Name for your network.

LINKSYS
Creating a Profile
Wireless Mode
Infrastructure Mode
Select Infrastructure Mode if you want to connect to a wireless router or access point.
Ad-Hoc Mode
Select Ad-Hoc Mode if you want to connect to another wireless device directly without using a wireless router or access point.
The wireless network name is shared by all devices in a wireless network and is case-sensitive.
Wireless Network Name
linksys
Back
Next

Wireless Mode

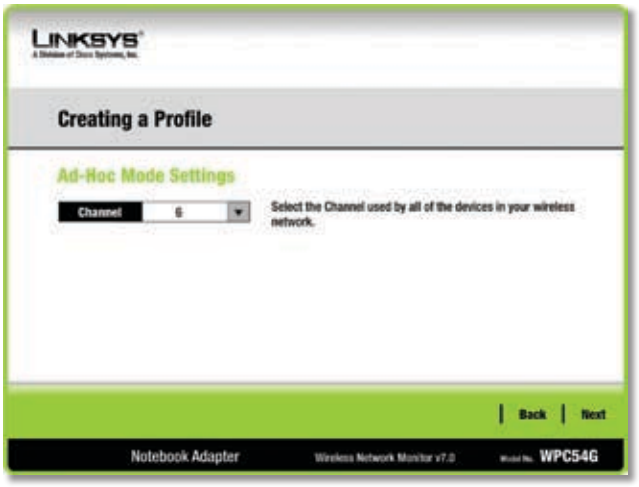
Infrastructure Mode Use this mode if you want to connect to a wireless router or access point.

Ad-Hoc Mode Use this mode if you want to connect to another wireless device directly without using a wireless router or access point.

Wireless Network Name This is the wireless network name (SSID) that must be used for all the devices in your wireless network. It is case sensitive and should be a unique name to help prevent others from entering your network.

Click **Next** to continue, or click **Back** to return to the previous screen.

5. If you chose Infrastructure Mode, go to Step 6 now. If you chose Ad-Hoc Mode, the *Ad-Hoc Mode Settings* screen appears.



Ad-Hoc Mode Settings

Network Mode Select the Network Mode in which your wireless network will operate. In Mixed mode, Wireless-N, Wireless-B and Wireless-G devices can operate on the same network. In Wireless-G Only mode, no Wireless-B devices can operate in the network.

Standard Channel Select the correct channel for your wireless network. The channel you choose should match the channel set on the other devices in your wireless network. If you are unsure about which channel to use, keep the default setting **Auto**.

Click **Next** to continue. Click the **Back** button to change any settings.

6. If your wireless network doesn't have wireless security, select **Disabled** and then click **Next** to continue. Proceed to Step 7.

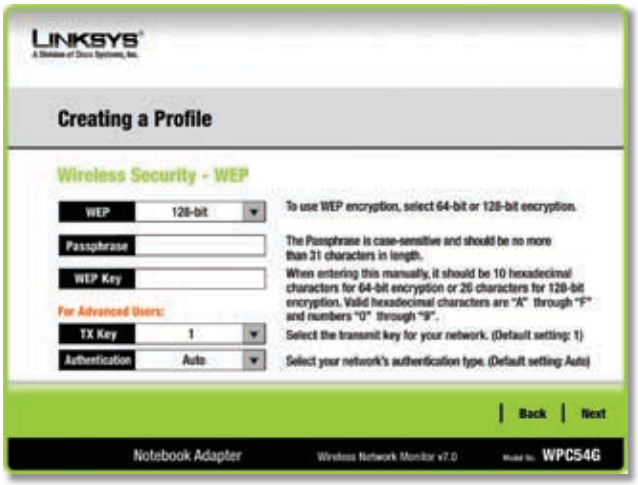
LINKSYS
Creating a Profile
Wireless Security
Security
Disabled
Please select the wireless security method used by your existing wireless network.
WEP stands for Wired Equivalent Privacy.
WPA-Personal, also known as Pre-Shared Key, is a security standard stronger than WEP encryption.
PSK2 is the newer version with stronger encryption than WPA-Personal.
WPA-Enterprise and RADIUS use Remote Authentication Dial-In User Service (RADIUS).
LEAP (Lightweight Extensible Authentication Protocol) is a mutual authentication method that uses a username and password system.
Back
Next

Wireless Security

If your wireless network has wireless security, select WEP, WPA-Personal, PSK2, WPA Enterprise, RADIUS, or LEAP for the Encryption Method. WEP stands for Wired Equivalent Privacy, WPA stands for Wi-Fi Protected Access, which is a security standard stronger than WEP encryption, PSK2 stands for Pre-Shared Key 2, which is a security standard stronger than WPA-Personal, RADIUS stands for Remote Authentication Dial-In User Service, and LEAP stands for Lightweight Extensible Authentication Protocol. If you don't want to use encryption, select **Disabled**. Click **Next** to continue or the **Back** button to return to the previous screen.

Proceed to the section for your security method.

WEP


LINKSYS
Creating a Profile
Wireless Security - WEP
WEP
128-bit
To use WEP encryption, select 64-bit or 128-bit encryption.
Passphrase
The Passphrase is case-sensitive and should be no more than 31 characters in length.
WEP Key
When entering this manually, it should be 10 hexadecimal characters for 64-bit encryption or 26 characters for 128-bit encryption. Valid hexadecimal characters are "A" through "F" and numbers "0" through "9".
For Advanced Users:
TX Key
1
Select the transmit key for your network. (Default setting: 1)
Authentication
Auto
Select your network's authentication type. (Default setting: Auto)
Back
Next
Notebook Adapter
WPC54G

WEP

WEP Select **64-Bit** or **128-Bit** encryption.

Passphrase Enter a passphrase in the *Passphrase* field, so a WEP key is automatically generated. It is case sensitive and should not be longer than 16 alphanumeric characters. This passphrase must match the passphrase of your other wireless network devices and is compatible with Linksys wireless products only. (If you have any non-Linksys wireless products, enter the WEP key manually on those products.)

WEP Key The WEP key you enter must match the WEP key of your wireless network. For 64-Bit encryption, enter exactly 10 hexadecimal characters. For 128-Bit encryption, enter exactly 26 hexadecimal characters. Valid hexadecimal characters are "0" to "9" and "A" to "F".

Advanced Users

TX Key The default transmit key number is 1. If your network's access point or wireless router uses transmit key number 2, 3, or 4, select the appropriate number from the *TX Key* drop-down box.

Authentication The default is set to **Auto**, so it will auto-detect for Shared Key or Open System authentication. For Shared Key authentication, both the sender and the recipient share a WEP key for authentication. For Open System authentication, the sender and the recipient do not share a WEP key for authentication. If you are not sure which authentication method to select, keep the default, **Auto**.

Click **Next** to continue, or click **Back** to return to the previous screen.

WPA Personal

WPA Personal offers two encryption methods, TKIP and AES, with dynamic encryption keys. Select **TKIP** or **AES** for encryption. Then enter a Pre-shared Key that is 8-63 characters in length.

WPA Personal

Encryption Select the type of algorithm you want to use, TKIP or AES, from the *Encryption* drop-down menu.

Passphrase Enter a Passphrase of 8-63 characters in the *Passphrase* field.

Click **Next** to continue or **Back** to return to the previous screen.

PSK2

PSK2

Passphrase Enter a Passphrase of 8-63 characters in the *Passphrase* field.

Click **Next** to continue or **Back** to return to the previous screen.

WPA Enterprise

WPA Enterprise features WPA security used in coordination with a RADIUS server. (This should only be used when a RADIUS server is connected to the Router.) WPA Enterprise offers two authentication methods, EAP-TLS and PEAP, as well as two encryption methods, TKIP and AES, with dynamic encryption keys.

Authentication Select the authentication method your network is using, **EAP-TLS** or **PEAP**.

EAP-TLS

WPA Enterprise - EAP-TLS

If you selected EAP-TLS, enter the login name of your wireless network in the *Login Name* field. Enter the name of the authentication server in the *Server Name* field (this is optional). From the *Certificate* drop-down menu, select the certificate you installed to authenticate you on your wireless network. Select the type of encryption, **TKIP** or **AES**, from the *Encryption* drop-down menu.

Click **Next** to continue or **Back** to return to the previous screen.

PEAP

WPA Enterprise - PEAP

If you selected PEAP, enter the login name of your wireless network in the *Login Name* field. Enter the password of your wireless network in the *Password* field. Enter the name of the authentication server in the *Server Name* field (this is optional). From the *Certificate* drop-down menu, select the certificate you have installed to authenticate you on your wireless network; if you want to use any certificate, keep the default setting, **Trust Any**. Then select the authentication method used inside the PEAP tunnel. Select the type of encryption, **TKIP** or **AES**, from the *Encryption* drop-down menu.

Click **Next** to continue or **Back** to return to the previous screen.

RADIUS

RADIUS features use of a RADIUS server. (This should only be used when a RADIUS server is connected to the Router.) RADIUS offers two authentication types: EAP-TLS and PEAP.

Authentication Select the authentication method your network is using, **EAP-TLS** or **PEAP**.

EAP-TLS

RADIUS - EAP-TLS

If you selected **EAP-TLS**, enter the login name of your wireless network in the *Login Name* field. Enter the name of the authentication server in the *Server Name* field (this is optional). From the *Certificate* drop-down menu, select the certificate you have installed to authenticate you on your wireless network.

Click **Next** to continue or **Back** to return to the previous screen.

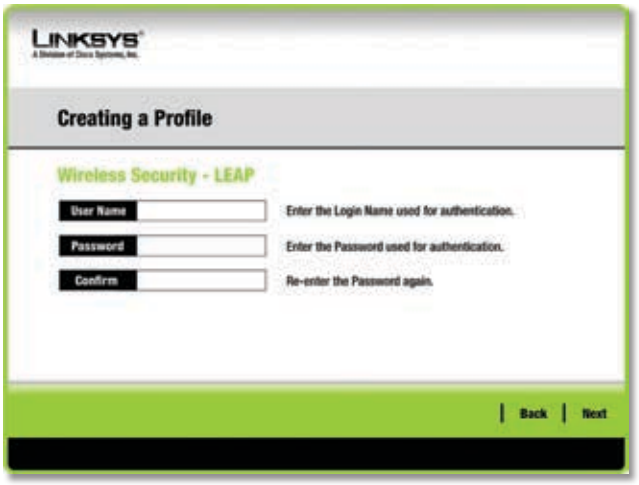
PEAP

RADIUS - PEAP

If you selected **PEAP**, enter the login name of your wireless network in the *Login Name* field. Enter the password of your wireless network in the *Password* field. Enter the name of the authentication server in the *Server Name* field (this is optional). From the *Certificate* drop-down menu, select the certificate you have installed to authenticate you on your wireless network; if you want to use any certificate, keep the default setting, **Trust Any**. Then select the authentication method used inside the PEAP tunnel.

Click **Next** to continue or **Back** to return to the previous screen.

LEAP



RADIUS > LEAP

If you selected **LEAP**, then enter the Username and Password that will authenticate you on your wireless network.

Username Enter the username used for authentication.

Password Enter the password used for authentication.

Confirm Enter the password again.

Click the **Next** button to continue, or click the **Back** button to return to the previous screen.

7. The *Confirm New Settings* screen appears next and shows the new settings.

Confirm New Settings

To save the new settings, click **Save**. To edit the new settings, click **Back**. To exit the Manual Setup through the Wireless Network Monitor, click **Exit**.

8. The *Congratulations* screen appears next. Click **Finish**.

Congratulations!

Congratulations! The profile is successfully configured.

Appendix A: Troubleshooting

Your computer does not recognize the Adapter.

Make sure that the Adapter is properly inserted into the PCI slot.

The Adapter does not work properly.

Remove the Adapter, and then reinsert it into the computer's PCI slot.

Your computer cannot communicate with the other computers linked via Ethernet in the Infrastructure configuration.

1. Make sure that the computers are powered on.
2. Make sure that the Adapter is configured with the same Wireless Network Name (SSID) and wireless security settings as the other wireless computers in the Infrastructure configuration.

WEB: If your questions are not addressed here, refer to the Linksys website, **www.linksys.com**

Appendix B: Specifications

Model	WMP54G
Standards	802.11g, 802.11b, PCI 2.2, PCI 2.3
LEDs	Act: Solid when Linked, Flashes with Traffic
Transmit Power	15 dBm @ 54 Mbps 19 dBm @ 11Mbps
Sensitivity	-70 dBm @ 54 Mbps -85 dBm @ 11 Mbps
Security Features	WEP, WPA, and LEAP
Network Protocol	TCP/IP, IPX, NetBEUI

Environmental

Dimensions	122 x 215 x 23 mm
Certification	FCC, Wi-Fi b/g, CE
Unit Weight	90 g
Operating Temp.	0 to 65ºC
Storage Temp.	-40 to 85ºC
Operating Humidity	0 to 95% Noncondensing
Storage Humidity	0 to 95% Noncondensing

Appendix C: Warranty Information

Limited Warranty

Linksys warrants that this Linksys hardware product will be substantially free of defects in materials and workmanship arising under normal use during the Warranty Period, which begins on the date of purchase by the original end-user purchaser and lasts for the period specified below:

- Two (2) years for new product
- Ninety (90) days for refurbished product

This limited warranty is non-transferable and extends only to the original end-user purchaser. Your exclusive remedy and Linksys' entire liability under this limited warranty will be for Linksys, at its option, to (a) repair the product with new or refurbished parts, (b) replace the product with a reasonably available equivalent new or refurbished Linksys product, or (c) refund the purchase price of the product less any rebates. Any repaired or replacement products will be warranted for the remainder of the original Warranty Period or thirty (30) days, whichever is longer. All products and/or parts that are replaced become the property of Linksys.

This limited warranty shall apply in addition to any statutory or other rights which you may have under a contract of sale.

Exclusions and Limitations

This limited warranty does not apply if: (a) the product assembly seal has been removed or damaged, (b) the product has been altered or modified, except by Linksys, (c) the product damage was caused by use with non-Linksys products, (d) the product has not been installed, operated, repaired, or maintained in accordance with instructions supplied by Linksys, (e) the product has been subjected to abnormal physical or electrical stress, misuse, negligence, or accident, (f) the serial number on the Product has been altered, defaced, or removed, or (g) the product is supplied or licensed for beta, evaluation, testing or demonstration purposes for which Linksys does not charge a purchase price or license fee.

ALL SOFTWARE PROVIDED BY LINKSYS WITH THE PRODUCT, WHETHER FACTORY LOADED ON THE PRODUCT OR CONTAINED ON MEDIA ACCOMPANYING THE PRODUCT, IS PROVIDED "AS IS" WITHOUT ANY WARRANTY OF ANY KIND. Without limiting the foregoing, Linksys does not warrant that the operation of the product or software will be uninterrupted or error free. Also, due to the continual development of new techniques for intruding upon and attacking networks, Linksys does not warrant that the product, service, software or any equipment, system or network on which the product or software is used will be free of vulnerability to intrusion or attack. The product may include or be bundled with third party software or service offerings. This limited warranty shall not apply to such third party software or service offerings. This limited warranty does not guarantee any continued availability of a third party's service for which this product's use or operation may require.

TO THE EXTENT NOT PROHIBITED BY LAW, ALL IMPLIED WARRANTIES AND CONDITIONS OF MERCHANTABILITY, SATISFACTORY QUALITY OR FITNESS FOR A PARTICULAR PURPOSE ARE LIMITED TO THE DURATION OF THE WARRANTY PERIOD. ALL OTHER EXPRESS OR IMPLIED CONDITIONS, REPRESENTATIONS AND WARRANTIES, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF NON-INFRINGEMENT, ARE DISCLAIMED. Some jurisdictions do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you. This limited warranty gives you specific legal rights, and you may also have other rights which vary by jurisdiction.

TO THE EXTENT NOT PROHIBITED BY LAW, IN NO EVENT WILL LINKSYS BE LIABLE FOR ANY LOST DATA, REVENUE OR PROFIT, OR FOR SPECIAL, INDIRECT, CONSEQUENTIAL, INCIDENTAL OR PUNITIVE DAMAGES, REGARDLESS OF THE THEORY OF LIABILITY (INCLUDING NEGLIGENCE), ARISING OUT OF OR RELATED TO THE USE OF OR INABILITY TO USE THE PRODUCT (INCLUDING ANY SOFTWARE), EVEN IF LINKSYS HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. IN NO EVENT WILL LINKSYS' LIABILITY EXCEED THE AMOUNT PAID BY YOU FOR THE PRODUCT. The foregoing limitations will apply even if any warranty or remedy provided under this limited warranty fails of its essential purpose. Some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

Obtaining Warranty Service

If you have a question about your product or experience a problem with it, please go to **www.linksys.com/support** where you will find a variety of online support tools and information to assist you with your product. If the product proves defective during the Warranty Period, contact Linksys Technical Support for instructions on how to obtain warranty service. The telephone number for Linksys Technical Support in your area can be found in the product User Guide and at **www.linksys.com**. Have your product serial number and proof of purchase on hand when calling. A DATED PROOF OF ORIGINAL PURCHASE IS REQUIRED TO PROCESS WARRANTY CLAIMS. If you are requested to return your product, you will be given a Return Materials Authorization (RMA) number. You are responsible for properly packaging and shipping your product to Linksys at your cost and risk. You must include the RMA number

and a copy of your dated proof of original purchase when returning your product. Products received without a RMA number and dated proof of original purchase will be rejected. Do not include any other items with the product you are returning to Linksys. Defective product covered by this limited warranty will be repaired or replaced and returned to you without charge. Customers outside of the United States of America and Canada are responsible for all shipping and handling charges, custom duties, VAT and other associated taxes and charges. Repairs or replacements not covered under this limited warranty will be subject to charge at Linksys' then-current rates.

Technical Support

This limited warranty is neither a service nor a support contract. Information about Linksys' current technical support offerings and policies (including any fees for support services) can be found at **www.linksys.com/support**

General

This limited warranty is governed by the laws of the jurisdiction in which the Product was purchased by you.

If any portion of this limited warranty is found to be void or unenforceable, its remaining provisions shall remain in full force and effect.

Please direct all inquiries to: Linksys, P.O. Box 18558, Irvine, CA 92623.

For more information, please contact us

www.linksys.com

Select your country, and then select SUPPORT/ TECHNICAL

For product returns:

Select your Country and then select CUSTOMER SUPPORT

Appendix D: Regulatory Information

FCC Statement

This product has been tested and complies with the specifications for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used according to the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which is found by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment or devices
- Connect the equipment to an outlet other than the receiver's
- Consult a dealer or an experienced radio/TV technician for assistance

FCC Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm between the radiator and your body.

Safety Notices

- Caution: To reduce the risk of fire, use only No.26 AWG or larger telecommunication line cord.
- Do not use this product near water, for example, in a wet basement or near a swimming pool.
- Avoid using this product during an electrical storm. There may be a remote risk of electric shock from lightning.

Industry Canada Statement

This Class B digital apparatus complies with Canadian ICES-003 and RSS210.

Operation is subject to the following two conditions:

1. This device may not cause interference and
2. This device must accept any interference, including interference that may cause undesired operation of the device.

   To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the EIRP is not more than required for successful communication.

Industry Canada Radiation Exposure Statement

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm between the radiator & your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Avis d'Industrie Canada

Cet appareil numérique de la classe B est conforme aux normes NMB-003 et RSS210 du Canada.

L'utilisation de ce dispositif est autorisée seulement aux conditions suivantes :

1. il ne doit pas produire de brouillage et
2. il doit accepter tout brouillage radioélectrique reçu, même si ce brouillage est susceptible de compromettre le fonctionnement du dispositif.
   Afin de réduire le risque d'interférence aux autres utilisateurs, le type d'antenne et son gain doivent être choisis de façon à ce que la puissance isotrope rayonnée équivalente (p.i.r.e.) ne soit pas supérieure au niveau requis pour obtenir une communication satisfaisante.

Avis d'Industrie Canada concernant l'exposition aux radiofréquences

Ce matériel est conforme aux limites établies par IC en matière d'exposition aux radiofréquences dans un environnement non contrôlé. Ce matériel doit être installé et utilisé à une distance d'au moins 20 cm entre l'antenne et le corps de l'utilisateur.

L'émetteur ne doit pas être placé près d'une autre antenne ou d'un autre émetteur, ou fonctionner avec une autre antenne ou un autre émetteur.

Wireless Disclaimer

The maximum performance for wireless is derived from IEEE Standard 802.11 specifications. Actual performance can vary, including lower wireless network capacity, data throughput rate, range and coverage. Performance depends on many factors, conditions and variables, including distance from the access point, volume of network traffic, building materials and construction, operating system used, mix of wireless products used, interference and other adverse conditions.

Avis de non-responsabilité concernant les appareils sans fil

Les performances maximales pour les réseaux sans fil sont tirées des spécifications de la norme IEEE 802.11. Les performances réelles peuvent varier, notamment en fonction de la capacité du réseau sans fil, du débit de la transmission de données, de la portée et de la couverture. Les performances dépendent de facteurs, conditions et variables multiples, en particulier de la distance par rapport au point d'accès, du volume du trafic réseau, des matériaux utilisés dans le bâtiment et du type de construction, du système d'exploitation et de la combinaison de produits sans fil utilisés, des interférences et de toute autre condition défavorable.

Declaration of Conformity with Regard to EU Directive 1999/5/EC (R&TTE Directive)

Compliance Information for 2,4-GHz and 5-GHz Wireless Products Relevant to the EU and Other Countries Following the EU Directive 1999/5/EC (R&TTE Directive)

Български [Bulgarian]	Това оборудване отговаря на съществените изисквания и приложими клаузи на Директива 1999/5/ЕС.
Česky [Czech]:	Toto zařízení je v souladu se základními požadavky a ostatními odpovídajícími ustanoveními Směrnice 1999/5/EC.
Dansk [Danish]:	Dette udstyr er i overensstemmelse med de væsentlige krav og andre relevante bestemmelser i Direktiv 1999/5/EF.
Deutsch [German]:	Dieses Gerät entspricht den grundlegenden Anforderungen und den weiteren entsprechenden Vorgaben der Richtlinie 1999/5/EU.
Eesti [Estonian]:	See seade vastab direktiivi 1999/5/EÜ olulistele nõuetele ja teistele asjakohastele sätetele.
English:	This equipment is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.
Español [Spanish]:	Este equipo cumple con los requisitos esenciales asi como con otras disposiciones de la Directiva 1999/5/CE.
Ελληνική [Greek]:	Αυτός ο εξοπλισμός είναι σε συμμόρφωση με τις ουσιώδεις απαιτήσεις και άλλες σχετικές διατάξεις της Οδηγίας 1999/5/ΕC.
Français [French]:	Cet appareil est conforme aux exigences essentielles et aux autres dispositions pertinentes de la Directive 1999/5/EC.
Íslenska [Icelandic]:	Þetta tæki er samkvæmt grunnkröfum og öðrum viðeigandi ákvæðum Tilskipunar 1999/5/EC.
Italiano [Italian]:	Questo apparato é conforme ai requisiti essenziali ed agli altri principi sanciti dalla Direttiva 1999/5/CE.
Latviski [Latvian]:	Šī iekārta atbilst Direktīvas 1999/5/EK būtiskajām prasībām un citiem ar to saistītajiem noteikumiem.
Lietuvių [Lithuanian]:	Šis įrenginys tenkina 1999/5/EB Direktyvos esminius reikalavimus ir kitas šios direktyvos nuostatas.
Nederlands [Dutch]:	Dit apparaat voldoet aan de essentiele eisen en andere van toepassing zijnde bepalingen van de Richtlijn 1999/5/EC.
Malti [Maltese]:	Dan l-apparat huwa konformi mal-ħtiġiet essenzjali u l-provedimenti l-oħra rilevanti tad-Direttiva 1999/5/EC.
Magyar [Hungarian]:	Ez a készülék teljesíti az alapvető követelményeket és más 1999/5/EK irányelvben meghatározott vonatkozó rendelkezéseket.
Norsk [Norwegian]:	Dette utstyret er i samsvar med de grunnleggende krav og andre relevante bestemmelser i EU-direktiv 1999/5/EF.
Polski [Polish]:	Urządzenie jest zgodne z ogólnymi wymaganiami oraz szczególnymi warunkami określonymi Dyrektywą UE: 1999/5/EC.
Português [Portuguese]:	Este equipamento está em conformidade com os requisitos essenciais e outras provisões relevantes da Directiva 1999/5/EC.
Română [Romanian]	Acest echipament este in conformitate cu cerintele esentiale si cu alte prevederi relevante ale Directivei 1999/5/EC.
Slovensko [Slovenian]:	Ta naprava je skladna z bistvenimi zahtevami in ostalimi relevantnimi pogoji Direktive 1999/5/EC.
Slovensky [Slovak]:	Toto zariadenie je v zhode so základnými požiadavkami a inými príslušnými nariadeniami direktív: 1999/5/EC.
Suomi [Finnish]:	Tämä laite täyttää direktiivin 1999/5/EY olennaiset vaatimukset ja on siinä asetettujen muiden laitetta koskevien määräysten mukainen.
Svenska [Swedish]:	Denna utrustning är i överensstämmelse med de väsentliga kraven och andra relevanta bestämmelser i Direktiv 1999/5/EC.

For all products, the Declaration of Conformity (DofC) is available through one or more of these options:

- A pdf file is included on the product's CD.
- A print copy is included with the product.
- A pdf file is available on the product's webpage. Visit **www.linksys.com/international** and select your country or region. Then select your product.

If you need any other technical documentation, see the "Technical Documents on www.linksys.com/international" section, as shown later in this appendix.

Wireless Equipment (Wireless-N/G/A/B Products)

The following standards were applied during the assessment of the product against the requirements of the Directive 1999/5/EC:

- Radio: EN 300 328 and/or EN 301 893 as applicable
- EMC: EN 301 489-1, EN 301 489-17
- Safety: EN 60950 and either EN 50385 or EN 50371

Dynamic Frequency Selection (DFS) and Transmit Power Control (TPC) are required for operation in the 5 GHz band.

DFS: The equipment meets the DFS requirements as defined in ETSI EN 301 893. This feature is required by the regulations to avoid interference with Radio Location Services (radars).

TPC: For operation in the 5 GHz band, the maximum power level is 3 dB or more below the applicable limit. As such, TPC is not required.

CE Marking

For the Linksys Wireless-N, -G, -B, and/or -A products, the following CE mark, notified body number (where applicable), and class 2 identifier are added to the equipment.

CE 0560 !

or

CE 0678 !

or

CE 0336 !

or

CE !

Check the CE label on the product to find out which notified body was involved during the assessment.

National Restrictions

This product may be used in all EU countries (and other countries following the EU directive 1999/5/EC) without any limitation except for the countries mentioned below:

Ce produit peut être utilisé dans tous les pays de l'UE (et dans tous les pays ayant transposés la directive 1999/5/CE) sans aucune limitation, excepté pour les pays mentionnés ci-dessous:

Questo prodotto è utilizzabile in tutte i paesi EU (ed in tutti gli altri paesi che seguono le direttive EU 1999/5/EC) senza nessuna limitazione, eccetto per i paesi menzionati di seguito:

Das Produkt kann in allen EU Staaten ohne Einschränkungen eingesetzt werden (sowie in anderen Staaten die der EU Direktive 1999/5/CE folgen) mit Außnahme der folgenden aufgeführten Staaten:

In the majority of the EU and other European countries, the 2,4- and 5-GHz bands have been made available for the use of wireless local area networks (LANs). The table labeled "Overview of Regulatory Requirements for Wireless LANs" provides an overview of the regulatory requirements applicable for the 2,4- and 5-GHz bands.

Later in this document you will find an overview of countries in which additional restrictions or requirements or both are applicable.

The requirements for any country may evolve. Linksys recommends that you check with the local authorities for the latest status of their national regulations for both the 2,4- and 5-GHz wireless LANs.

Overview of Regulatory Requirements for Wireless LANs

Frequency Band (MHz)	Max Power Level (EIRP) (mW)	Indoor ONLY	Indoor & Outdoor
2400-2483.5	100		X
5150-5350†	200	X	
5470-5725†	1000		X

†Dynamic Frequency Selection and Transmit Power Control are required in the frequency ranges of 5250-5350 MHz and 5470-5725 MHz.

The following countries have restrictions and/or requirements in addition to those given in the table labeled "Overview of Regulatory Requirements for Wireless LANs":

Denmark

In Denmark, the band 5150 - 5350 MHz is also allowed for outdoor usage.

I Danmark må frekvensbåndet 5150 - 5350 også anvendes udendørs.

France

For 2,4 GHz, the product should not be used outdoors in the band 2454 - 2483,5 MHz. There are no restrictions when used in other parts of the 2,4 GHz band when used indoors. Check http://www.arcep.fr/ for more details.

Pour la bande 2,4 GHz, l' équipement ne doit pas être utilisé en extérieur dans la bande 2454 - 2483,5 MHz. Il n'y a pas de restrictions pour des utilisations en intérieur dans d'autres parties de la bande 2,4GHz. Consultez http://www.arcep.fr/ pour de plus amples détails.

Applicable Power Levels in France

Location	Frequency Range (MHz)	Power (EIRP)
Indoor (No restrictions)	2400-2483.5	100 mW (20 dBm)
Outdoor	2400-2454 2454-2483.5	100 mW (20 dBm) 10 mW (10 dBm)

Italy

This product meets the National Radio Interface and the requirements specified in the National Frequency Allocation Table for Italy. Unless this 2,4-GHz wireless LAN product is operating within the boundaries of the owner's property, its use requires a "general authorization". Please check http://www.comunicazioni.it/it/ for more details.

Questo prodotto è conforme alla specifiche di Interfaccia Radio Nazionali e rispetta il Piano Nazionale di ripartizione delle frequenze in Italia. Se non viene installato all'interno del proprio fondo, l'utilizzo di prodotti Wireless LAN a 2,4 GHz richiede una "Autorizzazione Generale". Consultare http://www.comunicazioni.it/it/ per maggiori dettagli.

Latvia

The outdoor usage of the 2,4 GHz band requires an authorization from the Electronic Communications Office. Please check http://www.esd.lv for more details.

2,4 GHz frekveču joslas izmantošanai ārpus telpām nepieciešama atļauja no Elektronisko sakaru direkcijas. Vairāk informācijas: http://www.esd.lv.

Notes:

1. Although Norway, Switzerland and Liechtenstein are not EU member states, the EU Directive 1999/5/EC has also been implemented in those countries.
2. The regulatory limits for maximum output power are specified in EIRP. The EIRP level of a device can be calculated by adding the gain of the antenna used (specified in dBi) to the output power available at the connector (specified in dBm).

Product Usage Restrictions

This product is designed for indoor usage only. Outdoor usage is not recommended, unless otherwise noted.

2,4 GHz Restrictions

This product is designed for use with the standard, integral or dedicated (external) antenna(s) that is/are shipped together with the equipment. However, some applications may require the antenna(s), if removable, to be separated from the product and installed remotely from the device by using extension cables. For these applications, Linksys offers an R-SMA extension cable (AC9SMA) and an R-TNC extension cable (AC9TNC). Both of these cables are 9 meters long and have a cable loss (attenuation) of 5 dB. To compensate for the attenuation, Linksys also offers higher gain antennas, the HGA7S (with R-SMA connector) and HGA7T (with R-TNC connector). These antennas have a gain of 7 dBi and may only be used with either the R-SMA or R-TNC extension cable.

Combinations of extension cables and antennas resulting in a radiated power level exceeding 100 mW EIRP are illegal.

Third-Party Software or Firmware

The use of software or firmware not supported/provided by Linksys may result that the equipment is no longer compliant with the regulatory requirements.

Technical Documents on www.linksys.com/international

Follow these steps to access technical documents:

1. Enter http://www.linksys.com/international in your web browser.
2. Select the country or region in which you live.
3. Click the **Products** tab.
4. Select the appropriate product category.
5. Select the product sub-category, if necessary.
6. Select the product.
7. Select the type of documentation you want from the More Information section. The document will open in PDF format if you have Adobe Acrobat installed on your computer.

NOTE: If you have questions regarding the compliance of this product or you cannot find the information you need, please contact your local sales office or visit **www.linksys.com/international**

User Information for Consumer Products Covered by EU Directive 2002/96/EC on Waste Electric and Electronic Equipment (WEEE)

This document contains important information for users with regards to the proper disposal and recycling of Linksys products. Consumers are required to comply with this notice for all electronic products bearing the following symbol:

English - Environmental Information for Customers in the European Union

European Directive 2002/96/EC requires that the equipment bearing this symbol on the product and/or its packaging must not be disposed of with unsorted municipal waste. The symbol indicates that this product should be disposed of separately from regular household waste streams. It is your responsibility to dispose of this and other electric and electronic equipment via designated collection facilities appointed by the government or local authorities. Correct disposal and recycling will help prevent potential negative consequences to the environment and human health. For more detailed information about the disposal of your old equipment, please contact your local authorities, waste disposal service, or the shop where you purchased the product.

Български (Bulgarian) - Информация относно опазването на околната среда за потребители в Европейския съюз

Европейска директива 2002/96/ЕС изисква уредите, носещи този символ върху изделието и/или опаковката му, да не се изхвърля т с несортирани битови отпадъци. Символът обозначава, че изделието трябва да се изхвърля отделно от сметосъбирането на обикновените битови отпадъци. Ваша е отговорността този и другите електрически и електронни уреди да се изхвърлят в предварително определени от държавните или общински органи специализирани пунктове за събиране. Правилното изхвърляне и рециклиране ще спомогнат да се предотвратят евентуални вредни за околната среда и здравето на населението последствия. За по-подробна информация относно изхвърлянето на вашите стари уреди се обърнете към местните власти, службите за сметосъбиране или магазина, от който сте закупили уреда.

Ceština (Czech) - Informace o ochraně životního prostředí pro zákazníky v zemích Evropské unie

Evropská směrnice 2002/96/ES zakazuje, aby zařízení označené tímto symbolem na produktu anebo na obalu bylo likvidováno s netříděným komunálním odpadem. Tento symbol udává, že daný produkt musí být likvidován odděleně od běžného komunálního odpadu. Odpovídáte za likvidaci tohoto produktu a dalších elektrických a elektronických zařízení prostřednictvím určených sběrných míst stanovených vládou nebo místními úřady. Správná likvidace a recyklace pomáhá předcházet potenciálním negativním dopadům na životní prostředí a lidské zdraví. Podrobnější informace o likvidaci starého vybavení si laskavě vyžádejte od místních úřadů, podniku zabývajícího se likvidací komunálních odpadů nebo obchodu, kde jste produkt zakoupili.

Dansk (Danish) - Miljøinformation for kunder i EU

EU-direktiv 2002/96/EF kræver, at udstyr der bærer dette symbol på produktet og/eller emballagen ikke må bortskaffes som usorteret kommunalt affald. Symbolet betyder, at dette produkt skal bortskaffes adskilt fra det almindelige husholdningsaffald. Det er dit ansvar at bortskaffe dette og andet elektrisk og elektronisk udstyr via bestemte indsamlingssteder udpeget af staten eller de lokale myndigheder. Korrekt bortskaffelse og genvinding vil hjælpe med til at undgå mulige skader for miljøet og menneskers sundhed. Kontakt venligst de lokale myndigheder, renovationstjenesten eller den butik, hvor du har købt produktet, angående mere detaljeret information om bortskaffelse af dit gamle udstyr.

Deutsch (German) - Umweltinformation für Kunden innerhalb der Europäischen Union

Die Europäische Richtlinie 2002/96/EC verlangt, dass technische Ausrüstung, die direkt am Gerät und/oder an der Verpackung mit diesem Symbol versehen ist, nicht zusammen mit unsortiertem Gemeindeabfall entsorgt werden darf. Das Symbol weist darauf hin, dass das Produkt von regulärem Haushaltmüll getrennt entsorgt werden sollte. Es liegt in Ihrer Verantwortung, dieses Gerät und andere elektrische und elektronische Geräte über die dafür zuständigen und von der Regierung oder örtlichen Behörden dazu bestimmten Sammelstellen zu entsorgen. Ordnungsgemäßes Entsorgen und Recyceln trägt dazu bei, potentielle negative Folgen für Umwelt und die menschliche Gesundheit zu vermeiden. Wenn Sie weitere Informationen zur Entsorgung Ihrer Altgeräte benötigen, wenden Sie sich bitte an die örtlichen Behörden oder städtischen Entsorgungsdienste oder an den Händler, bei dem Sie das Produkt erworben haben.

Eesti (Estonian) - Keskkonnaalane informatsioon Euroopa Liidus asuvatele klientidele

Euroopa Liidu direktiivi 2002/96/EÜ nõuete kohaselt on seadmeid, millel on tootel või pakendil käesolev sümbol, keelatud kõrvaldada koos sorteerimata olmejäätmetega. See sümbol näitab, et toode tuleks kõrvaldada eraldi tavalistest olmejäätmevoogudest. Olete kohustatud kõrvaldama käesoleva ja ka muud elektri- ja elektroonikaseadmed riigi või kohalike ametiasutuste poolt ette nähtud kogumispunktide kaudu. Seadmete korrektne kõrvaldamine ja ringlussevõtt aitab vältida võimalikke negatiivseid tagajärgi keskkonnale ning inimeste tervisele. Vanade seadmete kõrvaldamise kohta täpsema informatsiooni saamiseks võtke palun ühendust kohalike ametiasutustega, jäätmekäitlusfirmaga või kauplusega, kust te toote ostsite.

Español (Spanish) - Información medioambiental para clientes de la Unión Europea

La Directiva 2002/96/CE de la UE exige que los equipos que lleven este símbolo en el propio aparato y/o en su embalaje no deben eliminarse junto con otros residuos urbanos no seleccionados. El símbolo indica que el producto en cuestión debe separarse de los residuos domésticos convencionales con vistas a su eliminación. Es responsabilidad suya desechar este y cualesquiera otros aparatos eléctricos y electrónicos a través de los puntos de recogida que ponen a su disposición el gobierno y las autoridades locales. Al desechar y reciclar correctamente estos aparatos estará contribuyendo a evitar posibles consecuencias negativas para el medio ambiente y la salud de las personas. Si desea obtener información más detallada sobre la eliminación segura de su aparato usado, consulte a las autoridades locales, al servicio de recogida y eliminación de residuos de su zona o pregunte en la tienda donde adquirió el producto.

ξλληνικά (Greek) - Στοιχεία περιβαλλοντικής προστασίας για πελάτες εντός της Ευρωπαϊκής Ένωσης

Η Κοινοτική Οδηγία 2002/96/EC απαιτεί ότι ο εξοπλισμός ο οποίος φέρει αυτό το σύμβολο στο προϊόν και/ή στη συσκευασία του δεν πρέπει να απορρίπτεται μαζί με τα μικτά κοινοτικά απορρίμματα. Το σύμβολο υποδεικνύει ότι αυτό το προϊόν θα πρέπει να απορρίπτεται ξεχωριστά από τα συνήθη οικιακά απορρίμματα. Είστε υπεύθυνος για την απόρριψη του παρόντος και άλλου ηλεκτρικού και ηλεκτρονικού εξοπλισμού μέσω των καθορισμένων εγκαταστάσεων συγκέντρωσης απορριμμάτων οι οποίες παρέχονται από το κράτος ή τις αρμόδιες τοπικές αρχές. Η σωστή απόρριψη και ανακύκλωση συμβάλλει στην πρόληψη πιθανών αρνητικών συνεπειών για το περιβάλλον και την υγεία. Για περισσότερες πληροφορίες σχετικά με την απόρριψη του παλιού σας εξοπλισμού, παρακαλώ επικοινωνήστε με τις τοπικές αρχές, τις υπηρεσίες απόρριψης ή το κατάστημα από το οποίο αγοράσατε το προϊόν.

Français (French) - Informations environnementales pour les clients de l'Union européenne

La directive européenne 2002/96/CE exige que l'équipement sur lequel est apposé ce symbole sur le produit et/ou son emballage ne soit pas jeté avec les autres ordures ménagères. Ce symbole indique que le produit doit être éliminé dans un circuit distinct de celui pour les déchets des ménages. Il est de votre responsabilité de jeter ce matériel ainsi que tout autre matériel électrique ou électronique par les moyens de collecte indiqués par le gouvernement et les pouvoirs publics des collectivités territoriales. L'élimination et le recyclage en bonne et due forme ont pour but de lutter contre l'impact néfaste potentiel de ce type de produits sur l'environnement et la santé publique. Pour plus d'informations sur le mode d'élimination de votre ancien équipement, veuillez prendre contact avec les pouvoirs publics locaux, le service de traitement des déchets, ou l'endroit où vous avez acheté le produit.

Italiano (Italian) - Informazioni relative all'ambiente per i clienti residenti nell'Unione Europea

La direttiva europea 2002/96/EC richiede che le apparecchiature contrassegnate con questo simbolo sul prodotto e/o sull'imballaggio non siano smaltite insieme ai rifiuti urbani non differenziati. Il simbolo indica che questo prodotto non deve essere smaltito insieme ai normali rifiuti domestici. È responsabilità del proprietario smaltire sia questi prodotti sia le altre apparecchiature elettriche ed elettroniche mediante le specifiche strutture di raccolta indicate dal governo o dagli enti pubblici locali. Il corretto smaltimento ed il riciclaggio aiuteranno a prevenire conseguenze potenzialmente negative per l'ambiente e per la salute dell'essere umano. Per ricevere informazioni più dettagliate circa lo smaltimento delle vecchie apparecchiature in Vostro possesso, Vi invitiamo a contattare gli enti pubblici di competenza, il servizio di smaltimento rifiuti o il negozio nel quale avete acquistato il prodotto.

Latviešu valoda (Latvian) - Ekoloģiska informācija klientiem Eiropas Savienības jurisdikcijā

Direktīvā 2002/96/EK ir prasība, ka aprīkojumu, kam pievienota zīme uz paša izstrādājuma vai uz tā iesaiņojuma, nedrīkst izmest nešķirotā veidā kopā ar komunālajiem atkritumiem (tiem, ko rada vietēji iedzīvotāji un uzņēmumi). Šī zīme nozīmē to, ka šī ierīce ir jāizmet atkritumos tā, lai tā nenonāktu kopā ar parastiem mājsaimniecības atkritumiem. Jūsu pienākums ir šo un citas elektriskas un elektroniskas ierīces izmest atkritumos, izmantojot īpašus atkritumu savākšanas veidus un līdzekļus, ko nodrošina valsts un pašvaldību iestādes. Ja izmešana atkritumos un pārstrāde tiek veikta pareizi, tad mazinās iespējamais kaitējums dabai un cilvēku veselībai. Sīkākas ziņas par novecojuša aprīkojuma izmešanu atkritumos jūs varat saņemt vietējā pašvaldībā, atkritumu savākšanas dienestā, kā arī veikalā, kur iegādājāties šo izstrādājumu.

Lietuvškai (Lithuanian) - Aplinkosaugos informacija, skirta Europos Sąjungos vartotojams

Europos direktyva 2002/96/EC numato, kad įrangos, kuri ir kurios pakuotė yra pažymėta šiuo simboliu (įveskite simbolį), negalima šalinti kartu su nerūšiuotomis komunalinėmis atliekomis. Šis simbolis rodo, kad gaminį reikia šalinti atskirai nuo bendro buitinių atliekų srauto. Jūs privalote užtikrinti, kad ši ir kita elektros ar elektroninė įranga būtų šalinama per tam tikras nacionalinės ar vietinės valdžios nustatytas atliekų rinkimo sistemas. Tinkamai šalinant ir perdirbant atliekas, bus išvengta galimos žalos aplinkai ir žmonių sveikatai. Daugiau informacijos apie jūsų senos įrangos šalinimą gali pateikti vietinės valdžios institucijos, atliekų šalinimo tarnybos arba parduotuvės, kuriose įsigijote tą gaminį.

Malti (Maltese) - Informazzjoni Ambjentali għal Klijenti fl-Unjoni Ewropea

Id-Direttiva Ewropea 2002/96/KE titlob li t-tagħmir li jkun fih is-simbolu fuq il-prodott u/jew fuq l-ippakkjar ma jistax jintrema ma' skart munićipali li ma ġiex isseparat. Is-simbolu jindika li dan il-prodott għandu jintrema separatament minn ma' l-iskart domestiku regolari. Hija responsabbiltà tiegħek li tarmi dan it-tagħmir u kull tagħmir ieħor ta' l-elettriku u elettroniku permezz ta' faċilitajiet ta' ġbir appuntati apposta mill-gvern jew mill-awtoritajiet lokali. Ir-rimi b'mod korrett u r-riċiklaġġ jgħin jipprevjeni konsegwenzi negattivi potenzjali għall-ambjent u għas-saħħa tal-bniedem. Għal aktar informazzjoni dettaljata dwar ir-rimi tat-tagħmir antik tiegħek, jekk jogħġbok ikkuntattja lill-awtoritajiet lokali tiegħek, is-servizzi għar-rimi ta' l-iskart, jew il-ħanut minn fejn xtrajt il-prodott.

Magyar (Hungarian) - Környezetvédelmi információ az európai uniós vásárlók számára

A 2002/96/EC számú európai uniós irányelv megkívánja, hogy azokat a termékeket, amelyeken, és/vagy amelyek csomagolásán az alábbi címke megjelenik, tilos a többi szelektálatlan lakossági hulladékkal együtt kidobni. A címke azt jelöli, hogy az adott termék kidobásakor a szokványos háztartási hulladékelszállítási rendszerektõl elkülönített eljárást kell alkalmazni. Az Ön felelõssége, hogy ezt, és más elektromos és elektronikus berendezéseit a kormányzati vagy a helyi hatóságok által kijelölt gyűjtõredszereken keresztül számolja fel. A megfelelõ hulladékfeldolgozás segít a környezetre és az emberi egészségre potenciálisan ártalmas negatív hatások megelõzésében. Ha elavult berendezéseinek felszámolásához további részletes információra van szüksége, kérjük, lépjen kapcsolatba a helyi hatóságokkal, a hulladékfeldolgozási szolgálattal, vagy azzal üzlettel, ahol a terméket vásárolta.

Nederlands (Dutch) - Milieu-informatie voor klanten in de Europese Unie

De Europese Richtlijn 2002/96/EC schrijft voor dat apparatuur die is voorzien van dit symbool op het product of de verpakking, niet mag worden ingezameld met niet-gescheiden huishoudelijk afval. Dit symbool geeft aan dat het product apart moet worden ingezameld. U bent zelf verantwoordelijk voor de vernietiging van deze en andere elektrische en elektronische apparatuur via de daarvoor door de landelijke of plaatselijke overheid aangewezen inzamelingskanalen. De juiste vernietiging en recycling van deze apparatuur voorkomt mogelijke negatieve gevolgen voor het milieu en de gezondheid. Voor meer informatie over het vernietigen van uw oude apparatuur neemt u contact op met de plaatselijke autoriteiten of afvalverwerkingsdienst, of met de winkel waar u het product hebt aangeschaft.

Norsk (Norwegian) - Miljøinformasjon for kunder i EU

EU-direktiv 2002/96/EF krever at utstyr med følgende symbol avbildet på produktet og/eller pakningen, ikke må kastes sammen med usortert avfall. Symbolet indikerer at dette produktet skal håndteres atskilt fra ordinær avfallsinnsamling for husholdningsavfall. Det er ditt ansvar å kvitte deg med dette produktet og annet elektrisk og elektronisk avfall via egne innsamlingsordninger slik myndighetene eller kommunene bestemmer. Korrekt avfallshåndtering og gjenvinning vil være med på å forhindre mulige negative konsekvenser for miljø og helse. For nærmere informasjon om håndtering av det kasserte utstyret ditt, kan du ta kontakt med kommunen, en innsamlingsstasjon for avfall eller butikken der du kjøpte produktet.

Polski (Polish) - Informacja dla klientów w Unii Europejskiej o przepisach dotyczących ochrony środowiska

Dyrektywa Europejska 2002/96/EC wymaga, aby sprzęt oznaczony symbolem znajdującym się na produkcie i/lub jego opakowaniu nie był wyrzucany razem z innymi niesortowanymi odpadami komunalnymi. Symbol ten wskazuje, że produkt nie powinien być usuwany razem ze zwykłymi odpadami z gospodarstw domowych. Na Państwu spoczywa obowiązek wyrzucania tego i innych urządzeń elektrycznych oraz elektronicznych w punktach odbioru wyznaczonych przez władze krajowe lub lokalne. Pozbywanie się sprzętu we właściwy sposób i jego recykling pomogą zapobiec potencjalnie negatywnym konsekwencjom dla środowiska i zdrowia ludzkiego. W celu uzyskania szczegółowych informacji o usuwaniu starego sprzętu, prosimy zwrócić się do lokalnych władz, służb oczyszczania miasta lub sklepu, w którym produkt został nabyty.

Português (Portuguese) - Informação ambiental para clientes da União Europeia

A Directiva Europeia 2002/96/CE exige que o equipamento que exibe este símbolo no produto e/ou na sua embalagem não seja eliminado junto com os resíduos municipais não separados. O símbolo indica que este produto deve ser eliminado separadamente dos resíduos domésticos regulares. É da sua responsabilidade eliminar este e qualquer outro equipamento eléctrico e electrónico através das instalações de recolha designadas pelas autoridades governamentais ou locais. A eliminação e reciclagem correctas ajudarão a prevenir as consequências negativas para o ambiente e para a saúde humana. Para obter informações mais detalhadas sobre a forma de eliminar o seu equipamento antigo, contacte as autoridades locais, os serviços de eliminação de resíduos ou o estabelecimento comercial onde adquiriu o produto.

Română (Romanian) - Informații de mediu pentru clienții din Uniunea Europeană

Directiva europeană 2002/96/CE impune ca echipamentele care prezintă acest simbol pe produs şi/sau pe ambalajul acestuia să nu fie casate împreună cu gunoiul menajer municipal. Simbolul indică faptul că acest produs trebuie să fie casat separat de gunoiul menajer obişnuit. Este responsabilitatea dvs. să casați acest produs şi alte echipamente electrice şi electronice prin intermediul unităților de colectare special desemnate de guvern sau de autoritățile locale. Casarea şi reciclarea corecte vor ajuta la prevenirea potențialelor consecințe negative asupra sănătății mediului şi a oamenilor. Pentru mai multe informații detaliate cu privire la casarea acestui echipament vechi, contactați autoritățile locale, serviciul de salubrizare sau magazinul de la care ați achiziționat produsul.

Slovenčina (Slovak) - Informácie o ochrane životného prostredia pre zákazníkov v Európskej únii

Podľa európskej smernice 2002/96/ES zariadenie s týmto symbolom na produkte a/alebo jeho balení nesmie byť likvidované spolu s netriedeným komunálnym odpadom. Symbol znamená, že produkt by sa mal likvidovať oddelene od bežného odpadu z domácností. Je vašou povinnosťou likvidovať toto i ostatné elektrické a elektronické zariadenia prostredníctvom špecializovaných zberných zariadení určených vládou alebo miestnymi orgánmi. Správna likvidácia a recyklácia pomôže zabrániť prípadným negatívnym dopadom na životné prostredie a zdravie ľudí. Ak máte záujem o podrobnejšie informácie o likvidácii starého zariadenia, obráťte sa, prosím, na miestne orgány, organizácie zaoberajúce sa likvidáciou odpadov alebo obchod, v ktorom ste si produkt zakúpili.

Slovenčina (Slovene) - Okoljske informacije za stranke v Evropski uniji

Evropska direktiva 2002/96/EC prepoveduje odlaganje opreme, označene s tem simbolom – na izdelku in/ali na embalaži – med običajne, nerazvrščene odpadke. Ta simbol opozarja, da je treba izdelek odvreči ločeno od preostalih gospodinjskih odpadkov. Vaša odgovornost je, da to in preostalo električno in elektronsko opremo odnesete na posebna zbirališča, ki jih določijo državne ustanove ali lokalna uprava. S pravilnim odlaganjem in recikliranjem boste preprečili morebitne škodljive vplive na okolje in zdravje ljudi. Če želite izvedeti več o odlaganju stare opreme, se obrnite na lokalno upravo, odpad ali trgovino, kjer ste izdelek kupili.

Suomi (Finnish) - Ympäristöä koskevia tietoja EU-alueen asiakkaille

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c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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END OF SCHEDULE 3

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The implementation was written so as to conform with Netscape's SSL.

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